

AMENDMENTS TO SPECIFICATION

On page 6 which bridges page 7, please replace the third full paragraph with the following amended paragraph.

With reference to FIG. 4, the timing generator 320 according to a first preferred embodiment of the invention comprises a storage unit 3211, an operation unit 3212, a comparison unit 3213, and a counting unit 3214. Preferably, the operation unit 3212 is comprised of an adder and a control circuit in the embodiment. Preferably, the storage unit 3211 is implemented as a random access memory (RAM) for storing the plurality of sets of polarity data and the plurality of PAC signals, i.e., the optimum PAC signals. The RAM 3211 has a size of $k \cdot 2^N$ and k output lines Z1-Zk Further, each set of polarity data comprises a plurality of data polarities. Furthermore, each set of polarity data corresponds to one PAC signal. Preferably, there are 16 sets of polarity data and there are 300 data polarities in the embodiment.

On page 8, please replace the first full paragraph with the following amended paragraph.

Next, the operation unit 3212 uses the adder to ~~perform~~s an inner product operation with respect to the polarity data vector and the display data vector for obtaining an absolute value of the inner product as a result. That is, the result corresponds to a sum of coupling voltages of the PAC signals of the polarity data vector. For example, the result is +4 (step S502). The result then is sent to the comparison unit 3213 for comparing with a predetermined value (e.g., +5). It means that the coupling value of the corresponding PAC signal of the polarity data (i.e., the absolute value of the sum of coupling voltages) is smaller if the result is smaller than

the predetermined value per the comparison in the comparison unit 3213. As an end, it is possible of decreasing cross-talk and improving display quality. Finally, the comparison unit 3213 outputs the PAC signal to the data driver 330 so that the data driver 330 is able to control the polarity arrangement of liquid crystal of the display panel 300 in response to the PAC signal (step S503).